„ A P R O V E ”
Head of Pharmacognozy and pharmaceutical botany Department
Dr.hab. biol. sc., professor
_____ Tatiana Calalb
"30" August, 2024

CALENDAR AND THEMATIC PLAN
OF LECTURES, LABORATORY WORS AND SELF-TRAINING WORK
ON PHARMACEUTICAL BOTANY FOR STUDENTS OF I YEAR OF FACULTY OF PHARMACY,
2024-2025 ACADEMIC YEAR (Ist semester)

Or. no.	THEME	Number of hours			Data
		Lectures	Practical hours	Self-training	
1	Introduction. Short history. Pharmaceutical botany and compartments. Vegetal cytology. Basic notions of cell biochemistry. Microtechnique, macro- and microscopic analysis procedures. Cell wall.	1	3	3	1/04.09 3/ 04.09
2,3	Structural organization of the plant cell. Plastids. Ergastic inclusions in the vegetal cell. Cellular diagnostic criteria in the vegetable products and plant identification.	2	6	5	2/11,18.09 6/11-18.09
4	Vegetal histology. Meristematic and protective tissues.	1	3	3	1/25.09 3/25.09
5	Vascular and mechanical tissues.	1	3	3	1/ 2.10 3/ 2.10
6	Fundamental and secretory tissues.	1	3	5	1/9.10 3/09.10
7	**Diagnostic cyto- and histological criteria in plant identification. Analysis and identification of micropreparations.**	-	3	3	3/16.10
8	Organography. Root. Stem. Morphology and anatomy. Root and stem – source of medicines.	2	3	5	2/ 16,23.10 3/23.10
9, 10	Leaf. Flower. Inflorescences. Types and classification. Morphology and anatomy. Morpho-anatomical criteria in plant identification. Leaf and flower – source of medicines.	2	6	5	2/30.10, 6.11 6/30.10, 06.11
11, 12	Fruit. Seed. Morphology and anatomy. Fruit and seed – source of medicines. Multiplication of plants. Morpho-anatomical criteria in plant identification.	1	6	10	1/13.11 6/13,20.11
13	**Morpho-anatomical analysis of plant organs based on diagnostic criteria on micropreparations, preserved and herborized materials.**	2	3	5	2/20,27.11 3/ 27.11
14	Vegetal systematic. Short history. Taxonomy. Morpho-anatomical characteristics of species with pharmaceutical value from divisions: *Cyanophyta*, *Chlorophyta*, *Phaeophyta*, *Rhodophyta*, *Mycota*, *Lychenophyta*.	1	3	3	1/ 04.12 3/ 04.12
15	Div. *Lichenophyta*, *Bryophyta*, *Lycopodiophyta*, *Equisetophyta*, *Polypodiophyta and Pinophyta* on preserved and herborized materials. Morpho-anatomical criteria. Species with pharmaceutical value.	1	3	10	1/ 11.12 3/ 11.12
	Total: Ist semester 180 hours	**15**	**45**	**60**	

Discussed and and approved at the department meeting, Minutes Nr. 2, 30.08.24

Associate profesoor **Maria Cojocaru-Toma**